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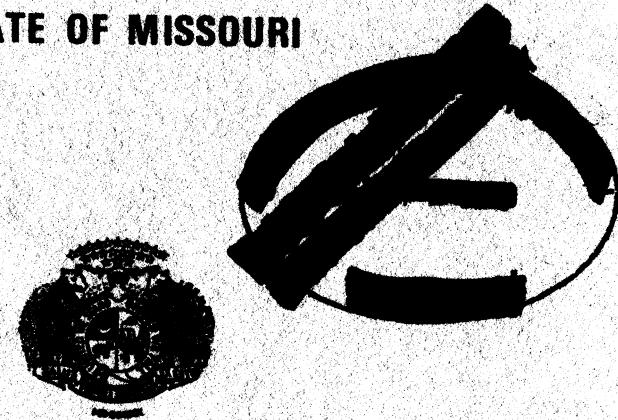
MINING

DIVISION OF LABOR STANDARDS

DEPARTMENT OF

LABOR AND INDUSTRIAL RELATIONS

STATE OF MISSOURI



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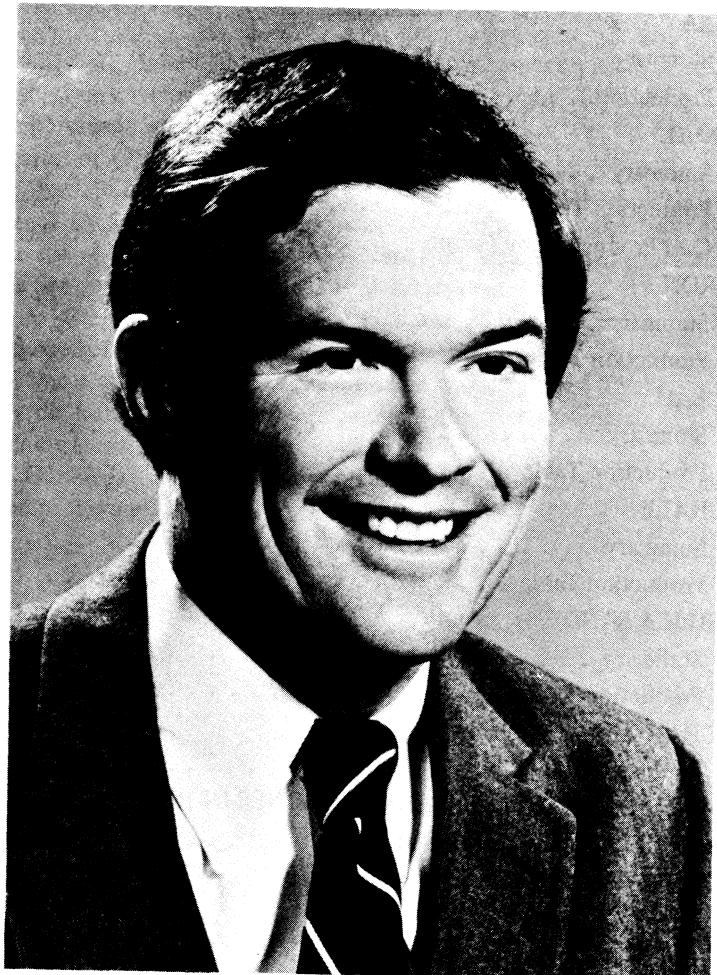
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DOCUMENT DIVISION

STATISTICAL REPORT

1983

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CHRISTOPHER S. BOND
Governor

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FOREWORD

Missouri Mineral Production in 1983 was not as plentiful as in past years. However the future looks bright for Missouri. Employment improved from 1982 and production was up the last quarter of 1983.

Our 1983 Safety Record was marred by 3 fatalities, but the frequency rate of Metal Mines was 5.50 compared to the National average of 30.65. Cominco American, Inc., Magmont Mine received the Sentinels of Safety Award for Metal Mining.

In Coal, our 1983 frequency rate was 15.07 with the national average being 16.10.

Our accident rate for Clay and Shale was very good for the year. We do not have an actual rate, due to the fact that much of this mining is contracted.

Our department received excellent cooperation from the mining companies and labor organizations.

MISSOURI MINERALS PRODUCTION

KIND OF MINES	TONS PRODUCED	
	1982	1983
CLAY	649,613	659,192
COAL	5,778,223	5,249,461
COPPER	11,578	13,542
GRANITE (Felsite)+	255,077	330,341
IRON	807,094	877,033
LEAD	680,310	638,473
SHALE	704,442	822,880
SILICA SAND . . .	764,283	713,490
ZINC	126,473	122,142

+Cubic Feet

Concentrates - Lead - Zinc - Copper

Iron - Pellets

CLAY

Clay production in Missouri in 1983 showed an increase of 9,579 tons compared in 1982.

THE LEADING PRODUCERS OF CLAY IN 1983 WERE AS FOLLOWS:

OPERATORS	TONS PRODUCED
Lowe's Southern Clay	150,729
River Cement Co.	116,861
Allied Chemical Co.	103,148
Southern Clay, Inc.	93,018
Mantle Mining Co.	45,084
Deeker Mining Co.	36,960

THE FOLLOWING IS THE CLAY PRODUCTION FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1974	1,780,114
1975	1,388,155
1976	1,403,983
1977	1,174,857
1978	1,235,744
1979	1,278,876
1890	1,074,509
1981	836,959
1982	649,613
1983	659,192

CLAY

Operator	Number Employed	Tonnage
A.D. Willis & Son	0	91
Allied Chemical Co.	5	103,148
Alsey Refractories Co.	4	13,839
A.P. Green	0	18,796
C.E. Refractories Co.	3	7,690
Churovich Clay Co.	0	1,091
Columbia Brick & Tile Co.	2	1,602
Deeker Mining Co.	5	36,960
Elton Hensley Mining Co.	1	7,365
Harbison Walker	5	2,244
Joe Gillian Mining Co.	5	9,287
Johnson Clay Co.	5	19,528
Kasten Clay Products	2	12,139
Langenberg Mining Co.	4	19,715
Lowe's Southern Clay	102	150,729
Mantle Mining Co.	4	45,084
River Cement Co.	6	116,861
Southern Clay, Inc.	15	93,018

COAL

Coal production for 1983 showed a decrease of 528,762 tons compared to 1982.

FOLLOWING ARE THE COUNTIES WHICH LED IN COAL PRODUCTION IN 1983:

Randolph	.....	2,911,875
Henry	.....	678,016
Barton	.....	512,008
Howard	.....	363,108
Vernon	.....	310,766

THE THREE LEADING COAL PRODUCERS FOR 1983 WERE:

Associated Electric Corp.	.....	1,812,156
N.E.M.O. Coal Co.	.....	1,019,339
Peabody Coal Co.	.....	678,016

THE FOLLOWING COUNTIES EMPLOYED THE MOST MEN IN THE PRODUCTION OF COAL IN 1983:

Randolph	.....	.594
Bates	.....	.177
Vernon	.....	.171
Henry	.....	.114
Howard	.....	.114

THE FOLLOWING IS THE COAL PRODUCTION FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1974	4,572,466
1975	5,669,671
1976	6,167,524
1977	6,626,940
1978	5,843,073
1979	6,487,445
1980	5,502,523
1981	5,242,031
1982	5,778,223
1983	5,249,461

COAL

Operator	Number Employed	Tonnage
Associated Electric Corp., Inc.	371	1,812,156
Bill's Coal Company	96	106,705
Burbridge Coal Co.	18	31,090
Howard County Coal Co.	38	66,468
Mid-MO. Energy Corp.	15	22,218
Midwestern Mining & Reclamation	75	204,061
Missouri Leasing & Investment Co.	8	26,857
Missouri Mining Inc.	24	65,362
Moniteau Valley Mine, Inc.	3	6,080
NEMO Coal Co.	190	1,019,339
Peabody Coal Co.	114	678,016
Pittsburg & Midway Coal Co. (Empire Mine)	73	512,008
Pittsburg & Midway Coal Co. (Midway Mine)	177	257,305
Universal Coal & Energy Co.	73	268,342
Wyoming Fuel (Tri-County Mine)	25	93,073
Yates Energy & Development Co.	33	80,380

COAL PRODUCTION BY COUNTY

COUNTY	TONS PRODUCED	FATAL ACCIDENTS
Bates	257,305	0
Barton	512,008	0
Henry	678,016	0
Howard	363,108	0
Putnam	65,362	0
Ralls	31,090	0
Randolph	2,911,875	1
Vernon	310,766	0
Cooper	26,857	0

IRON

The 1983 production of Iron showed an increase of 69,939 tons compared to 1982.

BELOW IS THE PRODUCTION RECORD OF IRON FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1974	1,936,627
1975	2,436,888
1976	2,294,779
1977	2,055,316
1978	717,769
1979	1,188,634
1980	1,439,300
1981	1,100,000
1982	807,094
1983	877,033

IRON

Operator	Number Employed	Tonnage
Pea Ridge Iron Ore Co.	106	877,033

LEAD

Lead production in Missouri for 1983 showed a decrease of 41,836 tons. Zinc showed a decrease of 4,330 tons and Copper showed an increase of 1,964 tons compared to 1982.

**BELow IS THE PRODUCTION RECORD OF LEAD, ZINC
AND COPPER FOR THE LAST TEN YEARS:**

Year	Tons Lead Produced	Tons Zinc Produced	Tons Copper Produced
1974	774,879	171,697	19,295
1975	703,970	144,223	27,000
1976	713,185	185,595	22,954
1977	697,417	148,742	31,063
1978	716,126	130,537	23,999
1979	719,553	130,323	31,386
1980	752,060	129,683	26,142
1981	555,776	98,269	15,384
1982	680,310	126,473	11,578
1983	638,474	122,143	13,542

LEAD, ZINC AND COPPER

Operator	Tons Produced Lead	Tons Produced Zinc	Tons Produced Copper	Men Employed
Amax Lead Co.	236,077	61,833		463
Cominco American	106,192	21,498	3,273	132
Ozark Lead Co.	14,462	770		150
St. Joe Minerals	281,743	38,042	10,269	557

SHALE

The 1983 production of Shale showed an increase of 121,228 tons compared to 1982.

THE FOLLOWING IS THE PRODUCTION RECORD OF SHALE FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1974	1,167,004
1975	1,051,050
1976	1,172,557
1977	1,276,884
1978	1,290,386
1979	1,353,088
1980	1,144,436
1981	958,652
1982	704,442
1983	825,670

SHALE

Operator	Number Employed	Tonnage
The Carter & Waters Corp.	20	65,066
Ceramo Company	3	10,128
Columbia Brick & Tile Co.	3	4,618
Continental Cement Co.	3	117,440
Dundee Cement Co.	39	565,026
Midland Brick & Tile Co.	3	63,392

SILICA SAND

The 1983 production of Silica Sand showed a decrease of 50,792 tons compared to 1982.

THE FOLLOWING IS THE PRODUCTION RECORD OF SILICA SAND FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1974	1,048,605
1975	702,694

1976	.....	995,049
1977	.....	1,080,200
1978	.....	1,168,894
1979	.....	1,175,214
1980	.....	1,072,951
1981	.....	1,130,395
1982	.....	764,283
1983	.....	713,491

SILICA SAND

Operator	Number Employed	Tonnage
Martin Marietta Agg.	17	136,333
Master Bros. Silica Sand	7	38,267
Pennsylvania Glass Sand	50	369,618
River Cement Co.	6	101,777
Unimin Corp.	18	67,496

GRANITE

Operator	Number Employed	Tonnage
G.A.F. Corp.	103	330,245
Missouri Red Quarries, Inc.	7	1,940

FATAL ACCIDENTS IN MISSOURI MINES IN 1983

Name of Mine	Name of Operator	
St. Joe No. 35 - Surface Vicinity	Carl Walters Drilling Co. Contractor	
Address of Operator	Date of Fatality	
Viburnum, MO.	August 15, 1983	
Name of Deceased	Age	Occupation
Robert L. Emily	49	Driller

Description of Accident: After raising the mast of the churn drill, Mr. Emily was pulling the first guy cable into place when the cable came into contact with the 34-KV overhead transmission line causing Mr. Emily to be electrocuted.

Name of Mine	Name of Operator	
Prairie Hill Mine	Associated Electric Corp., Inc.	
Address of Operator	Date of Fatality	
Clifton Hill, MO.	November 1, 1983	
Name of Deceased	Age	Occupation
Andrew Eugene Bryant	43	Groundman

Description of Accident: The accident occurred when Mr. Bryant attempted to tram his Cat. D-8k bulldozer around the front of the dragline. The dozer overturned after being pushed off the face by the rotating dragline, hurling the victim from the cab, causing fatal injuries.

Name of Mine	Name of Operator	
Viburnum No. 28	St. Joe Operator	
Address of Operator	Date of Fatality	
Viburnum, MO.	December 22, 1983	
Name of Deceased	Age	Occupation
Larry R. Bodimer	33	Apprentice Electrician

Description of Accident: When Mr. Bodimer replaced the burned out coil on the main power contactor, he pushed the contactor back in and apparently it operated the linkage in reverse causing him to be electrocuted.

MINE FATALITIES IN MISSOURI

Year	Lead and Zinc Mines	Coal Mines	Other Mines	Total
1900 . . .	52	19	--	71
1901 . . .	41	15	--	56
1902 . . .	14	10	--	24
1903 . . .	13	17	--	30
1904 . . .	30	11	--	41
1905 . . .	49	11	--	60
1906 . . .	58	16	--	74
1907 . . .	42	8	3	53
1908 . . .	46	10	--	56
1909 . . .	65	21	--	86
1910 . . .	45	16	--	61
1911 . . .	33	8	3	44
1912 . . .	28	19	2	49
1913 . . .	28	9	4	41
1914 . . .	22	19	2	43
1915 . . .	41	17	2	60
1916 . . .	35	6	2	43
1917 . . .	48	14	--	62
1918 . . .	16	22	1	39
1919 . . .	11	10	1	22
1920 . . .	No Report	-	--	-
1921 . . .	10	12	--	22
1922 . . .	10	6	--	16
1923 . . .	9	20	--	29
1924 . . .	12	6	--	18
1925 . . .	6	11	--	17
1926 . . .	11	7	--	18
1927 . . .	5	9	1	15
1928 . . .	8	11	2	21
1929 . . .	2	7	--	9
1930 . . .	3	10	3	16
1931 . . .	1	6	2	9
1932 . . .	2	7	1	10
1933 . . .	--	19	2	21
1934 . . .	1	13	--	14
1935 . . .	2	9	--	11
1936 . . .	3	16	1	20
1937 . . .	2	14	2	18
1938 . . .	5	7	2	14
1939 . . .	6	1	--	7
1940 . . .	3	7	--	10
1941 . . .	4	8	2	14

Year	Lead and Zinc Mines	Coal Mines	Other Mines	Total
1942 . . .	6	--	2	8
1943 . . .	4	7	2	13
1944 . . .	6	4	2	12
1945 . . .	6	5	2	13
1946 . . .	1	3	2	6
1947 . . .	7	3	6	16
1948 . . .	2	1	4	7
1949 . . .	5	2	5	12
1950 . . .	2	1	4	7
1951 . . .	2	2	5	9
1952 . . .	3	3	4	10
1953 . . .	2	--	--	2
1954 . . .	--	1	1	2
1955 . . .	1	--	2	3
1956 . . .	1	--	1	2
1957 . . .	3	1	3	7
1958 . . .	2	1	3	6
1959 . . .	4	--	--	4
1960 . . .	--	--	--	0
1961 . . .	6	1	--	7
1962 . . .	--	--	--	0
1963 . . .	--	--	--	0
1964 . . .	3	--	--	3
1965 . . .	2	--	--	2
1966 . . .	1	1	2	4
1967 . . .	2	--	--	2
1968 . . .	3	--	1	4
1969 . . .	2	--	--	2
1970 . . .	3	1	--	4
1971 . . .	3	1	--	4
1972 . . .	2	1	1	4
1973 . . .	2	--	4	6
1974 . . .	2	--	3	5
1975 . . .	--	2	2	4
1976 . . .	1	--	--	1
1977 . . .	1	--	--	1
1978 . . .	--	--	2	2
1979 . . .	1	--	--	1
1980 . . .	--	--	--	0
1981 . . .	1	--	--	1
1982 . . .	2	--	--	2
1983 . . .	2	1	--	3
Total	918	512	101	1,547

CAVES

An act of the 63rd General Assembly authorized and directed inspection of all Caves held open to the public and to require every Cave owner, operator or agent to provide necessary safety guard rails, bridges, ladders, entrances, platforms, walkways, safety barriers, rails, paths and other safety measures in and around any such Cave before it may be opened to the public and to file a complete and true map plan of such cave.

It shall be the duty of the Inspection Section to inspect such Caves at least once a year. The annual inspection fee will be thirty-five dollars (\$35.00).

COUNTY	NAME OF CAVE	ADDRESS
Barry	Crystal Caverns	Cassville, MO.
Camden	Ozark Caverns	Osage Beach, MO.
Camden	Bridal Cave	Camdenton, MO.
Crawford	Onondago Cave	Leasburg, MO.
Franklin	Fisher's Cave	Sullivan, MO.
Franklin	Meramec Caverns	Stanton, MO.
Greene	Crystal Cave	Springfield, MO.
Greene	Fantastic Caverns	Springfield, MO.
McDonald	Ozark Wonder Cave	Noel, MO.
McDonald	Bluff Dwellers Cave	Noel, MO.
McDonald	Truitts Cave	Lanagan, MO.
Marion	Cameron Cave	Hannibal, MO.
Marion	Mark Twain Cave	Hannibal, MO.
Miller	Indian Burial Cave	Osage Beach, MO.
Miller	Fantasy World Cavern	Osage Beach, MO.
Morgan	Jacob's Cave	Versailles, MO.
St. Francois	Bonne Terre Cave	Bonne Terre, MO.
Shannon	Round Springs	Round Springs, MO.
Stone	Talking Rock Cave	Silver Dollar City, MO.
Stone	Marvel Cave	Silver Dollar City, MO.
Wayne	Rebel Cave	Silva, MO.